

FIBRE Second Run Software Kickoff

August 22, 2001

DjB, TAA, GMV, JGS, LMC, SHM

George's Introduction:

There were issues with software on FIBRE Run #1. We want to make sure we address those which are crucial for the completion of science in February, saving all others until later.

What would be highly desirable for the February 2002 CSO run software:

Robustness:

No loss of data for an hour or so

Ease of Use:

Upon startup following crash (for example), start data taking within a minute

More high level routines to simplify operations

Manual: "IRC for Dummies"

Suitability to Observing:

Complete data stream with telescope & Fabry-Perot synchronization (not real time but with latency of less than a few minutes, postprocessed if necessary)

Data format can be output in such a way as to be readable by other software

Visualizations at slower rates (e.g., chop-coadded at 4Hz)

Mathematical Ability:

Chopped-beam differencing in real time

Coaddition in real time; coaddition to CSO 100Hz rate

Binning/histogramming for spectroscopy in real time ("accumulator visualization")

Troy:

Will give us advice on new computer to buy (P4 benchmarks).

Lynne:

IRC team must know what F-P data stream means.

To Do Prioritization of Importance/Difficulty:

- 1/* No loss of data for an hour or so
- 3/ Upon startup following crash (for example), start data taking within a minute
- 3/* More high level routines to simplify operations
- 2/* Manual: "IRC for Dummies"
- 1/H* Complete data stream with telescope & Fabry-Perot synchronization
- 1/E* Data format can be output in such a way as to be readable by other software
- 1/E Chopped-beam differencing in real time
- 2/E Coaddition in real time; coaddition to CSO 100Hz rate
- 2/M* Binning/histogramming for spectroscopy in real time ("accumulator visualization")
- 1/* Reliable, high-fidelity Telescope/F-P simulator

* substantial effort from 685 to define, implement, or test these items.

Future Schedule:

Followup meeting to be held Thursday, August 23 11am for Data Input Format Definition

Wednesday, Sept 5 9:30am: IRC Chop Demo & Data Output Format Definition

Deliver IRC version with #1 priorities implemented November 1.